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COMMUNICABLE DISEASE CENTER

Morbidity and Mortality

Vol. 14, No. 44

WEEKLY REPORT

Week Ending November 6, 1965

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE

MEASLES – MASON COUNTY, KENTUCKY

During the week ended October 23, twenty-three of the 24 cases of measles reported from Kentucky were recorded by Mason County (population 19,000), located in the northeastern part of the State. Further investigation revealed a localized school-centered epidemic in this County. A selective county-wide measles vaccination program was conducted in an effort to abort the epidemic.

The cases in Mason County were found to be localized in the eastern portion of the County in the Orangeburg School district. The earliest known case occurred on October 4 in the first grade and was followed by a peak of 14 cases in the same grade between October 15 and 20.

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A second peak of 23 cases involving portions of the first and second grades occurred from October 27 through November 1. Scattered cases also occurred in other grades and in preschool children (Table 1). Of preschool-age cases, all but two resulted from contact with school-age children and siblings.

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CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

(Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	44th WEEK ENDED		MEDIAN 1960–1964	CUMULATIVE, FIRST 44 WEEKS		
	NOVEMBER 6, 1965	OCTOBER 31, 1964		1965	1964	MEDIAN 1960–1964
Aseptic meningitis	43	46	68	1,794	1,806	2,232
Brucellosis	3	9	8	209	350	350
Diphtheria	10	10	10	135	233	375
Encephalitis, primary infectious	30	55	- - -	1,616	2,844	- - -
Encephalitis, post-infectious	6	8	- - -	587	728	- - -
Hepatitis, infectious including serum hepatitis	633	668	921	28,681	32,433	36,694
Measles	1,356	1,304	1,449	246,184	467,776	403,312
Meningococcal infections	45	60	47	2,588	2,357	1,875
Poliomyelitis, Total	1	3	16	49	101	740
Paralytic	1	2	13	36	80	587
Nonparalytic	–	1	- - -	9	11	- - -
Unspecified	–	–	- - -	4	10	- - -
Streptococcal Sore Throat and Scarlet fever	6,489	6,540	5,549	329,400	333,180	268,482
Tetanus	6	3	- - -	226	240	- - -
Tularemia	4	4	- - -	221	286	- - -
Typhoid fever	6	6	18	374	362	543
Rabies in Animals	45	90	57	3,674	3,861	3,178

NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	7	Rabies in Man:	1
Botulism:	13	Smallpox:	–
Leptospirosis: Ill.-1, Ohio-2	46	Trichinosis: N.Y. Upstate-2, N.J.-1	100
Malaria: N.C.-1, Ore.-1, S.C.-1, Va.-1	72	Typhus –	
Plague:	6	Murine:	22
Psittacosis:	37	Rky. Mt. Spotted: Ga.-2	248
Cholera:	2		

MEASLES – MASON COUNTY, KENTUCKY

(Continued from front page)

Table 1
PRESUMPTIVE MEASLES CASES
October 4 – November *
Mason County

Age (years)	≤1	2	3	4	5	6	7	8	9	10+	Total
No. of cases	3	2	4	4	3	24	17	2	1	0	60

Orangeburg School

Grade	No. of Children	No. of Cases	Attack Rate (%)
First	70	30	43%
Second	60	10	17%
All Other	326	3	1%

*Presumptive cases include clinically confirmed cases plus those currently under investigation.

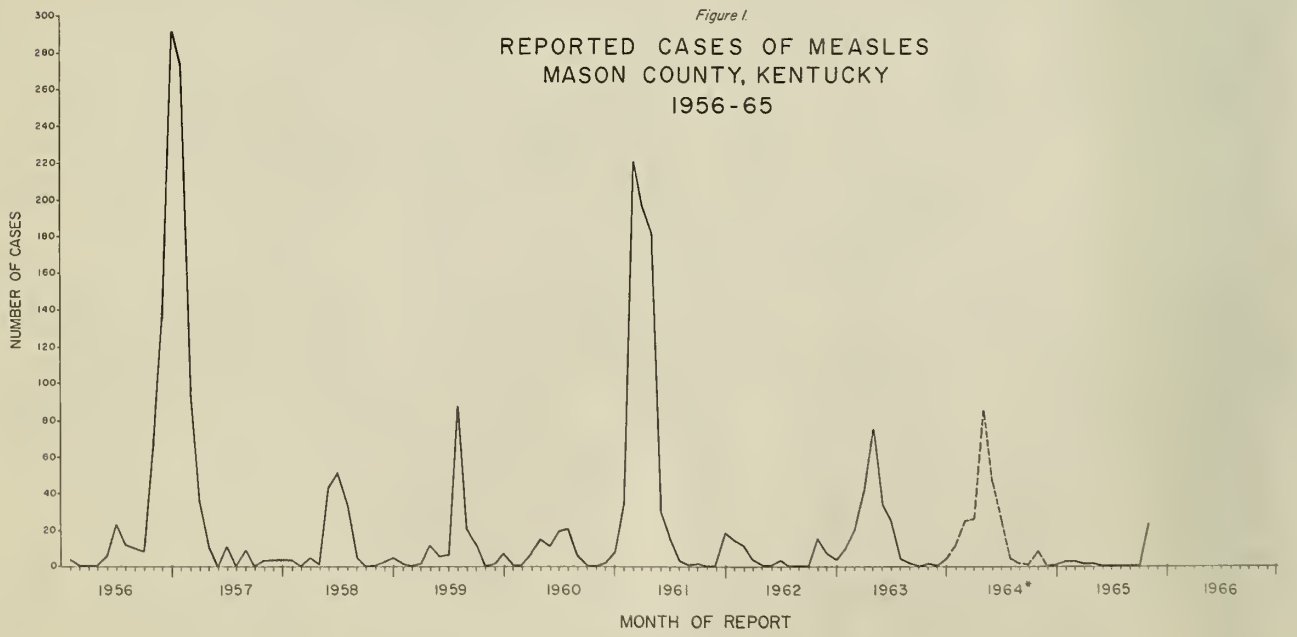
During the past 10 years, peaks in measles incidence in Mason County were recorded in 1956 and 1961 (Figure 1). A marked rise in cases during October appeared to forecast a measles season of epidemic proportions in the ensuing winter and spring.

In an attempt to abort the outbreak of measles in Mason County, susceptible first and second graders, plus those in special education classes and one private kindergarten, were designated as a "target population." Of 861 children in this group, 368 were thought to be immune. Of the remainder, 345 were immunized with further attenuated live virus measles vaccine on November 2 and 3. The proportion of susceptible first and second graders was thus reduced from 43 percent to less than 20 percent. Intensive surveillance procedures have been instituted to determine whether or not this has effectively contained the outbreak of measles.

(Reported by Mr. J.R. Sills, Administrator, Mason County Health Department; J.W. Skaggs, D.V.M., Acting Director, Epidemiology Division, Kentucky State Health Department; Dr. Russell E. Teague, Commissioner of Health, Kentucky State Department of Health; and an EIS Officer.)

Figure I.

REPORTED CASES OF MEASLES
MASON COUNTY, KENTUCKY
1956-65



* 1964 – ESTIMATED DUE TO RUBELLA EPIDEMIC.

CURRENT TRENDS

MEASLES – 1965

A total of 4,051 cases of measles was reported for the 4-week period ended November 5, 1,315 more than were reported during the preceding 4 weeks of this year (Figure 2). This seasonal increase was noted in five sections of the country but was most pronounced in the Middle Atlantic, East North Central and East South Central regions.

Eight States have reported more than 200 cases in the past 4 weeks: Wisconsin, West Virginia, Texas, Michigan, Kentucky, Tennessee, Illinois and New Jersey. The majority of these States have had more cases during the 41st through 44th weeks of this year than were reported for comparable periods in either 1963 or 1964. Although measles is being reported in most of the larger metropolitan areas, rural outbreaks continue to account for many of the reported cases (MMWR, Vol. 14, No. 40).

The number of cases of measles in the New England, Mountain and Pacific States for the 41st through the 44th weeks was less in 1965 than in any other recent year (Table 2). The New England and Mountain regions are the only sections of the country which had widespread epidemics of measles during the early part of 1965.

(Reported by the Childhood Virus Disease Unit of CDC.)

Figure 2.

REPORTED MEASLES
BY FOUR-WEEK PERIODS, UNITED STATES
1965 COMPARED WITH 11 YEAR PERIOD, 1954-1964

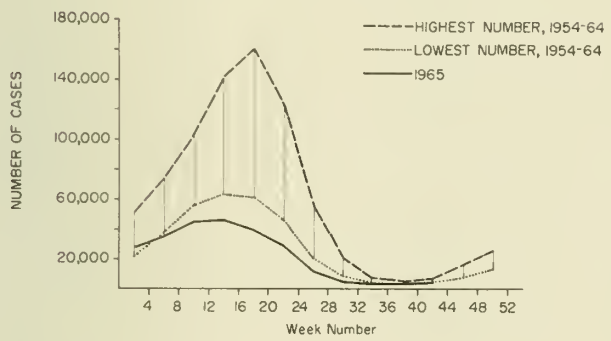


Table 2
Reported Cases of Measles by Geographic Division
Weeks 41-44, 1960-1965

Area	1960	1961	1962	1963	1964	1965*
New England	603	785	281	319	786	160
Middle Atlantic	981	481	489	697	311	569
East North Central	1,251	1,074	1,579	915	573	1,162
West North Central	226	138	367	137	150	202
South Atlantic	417	469	382	552	355	461
East South Central	204	334	226	279	377	514
West South Central	270	672	304	280	360	290
Mountain	369	472	725	405	511	331
Pacific	873	1,145	1,246	911	703	362
Total	5,194	5,570	5,599	4,495	4,126	4,051

*Provisional data.

SURVEILLANCE SUMMARY

SALMONELLA – August 1965

The isolations of salmonella during August from human sources number 1,887 and from non-human sources, 659. For July 1965, the comparative figures were 1,800 and 769 respectively. The increasing seasonal incidence of isolations from humans at this time of the year is expected on the basis of data for 1963 and 1964 (Figure 3).

Among the isolations from human sources *Salmonella typhi-murium* and *S. typhi-murium* var. *copenhagen* predominated, while the age and sex distribution of individuals harboring salmonellae were consistent with patterns previously noted. Out of 67 serotypes, 7 serotypes accounted for 66.2 percent of the total isolations reported.

Among the seven most common serotypes reported in August is *Salmonella thompson* which was also a prominent isolate in July. The large number of *S. thompson* isolates for the second month in succession is mainly the result of a nursery outbreak in a hospital in New York State. Preliminary data indicate a small number of clinical cases with a much larger number of asymptomatic carriers identified by a culture survey of infants in wards and of hospital personnel.

Of the non-human isolates, 60 serotypes were identified; 7 accounted for 60.3 percent of the 659 isolations reported. *Salmonella typhi-murium* and *S. typhi-murium* var. *copenhagen* again predominated. The animal species from which the majority of isolations were obtained are in order of frequency.

(Continued on page 384)

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
NOVEMBER 6, 1965 AND OCTOBER 31, 1964 (44th WEEK)

Area	Aseptic Meningitis		Encephalitis Primary	Encephalitis Post-Inf.	Poliomyelitis Total Cases	Poliomyelitis Total Cases Cumulative		Poliomyelitis Paralytic	Poliomyelitis Paralytic Cumulative		Diphtheria	Diphtheria Cum.
	1965	1964	1965	1965	1965	1965	1964	1965	1965	1964	1965	1965
UNITED STATES...	43	46	30	6	1	49	101	1	36	80	10	135
NEW ENGLAND.....	1	-	1	-	-	-	2	-	-	2	-	2
Maine.....	-	-	-	-	-	-	1	-	-	1	-	-
New Hampshire.....	-	-	-	-	-	-	-	-	-	-	-	-
Vermont.....	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts.....	1	-	-	-	-	-	-	-	-	-	-	2
Rhode Island.....	-	-	1	-	-	-	-	-	-	-	-	-
Connecticut.....	-	-	-	-	-	-	1	-	-	1	-	-
MIDDLE ATLANTIC.....	3	7	8	-	1	5	15	1	4	13	-	5
New York City.....	2	2	3	-	-	1	2	-	-	2	-	3
New York, Up-State.	-	3	1	-	1	1	10	1	1	9	-	-
New Jersey.....	-	2	2	-	-	3	3	-	3	2	-	-
Pennsylvania.....	1	-	2	-	-	-	-	-	-	-	-	2
EAST NORTH CENTRAL...	10	7	9	1	-	2	22	-	2	16	-	6
Ohio.....	1	2	8	-	-	-	2	-	-	2	-	1
Indiana.....	-	1	-	-	-	-	8	-	-	5	-	2
Illinois.....	1	3	1	1	-	1	6	-	1	5	-	2
Michigan.....	7	1	-	-	-	1	3	-	1	2	-	-
Wisconsin.....	1	-	-	-	-	-	3	-	-	2	-	1
WEST NORTH CENTRAL...	4	2	3	1	-	11	9	-	7	7	1	20
Minnesota.....	3	2	-	1	-	1	3	-	1	2	-	7
Iowa.....	1	-	-	-	-	5	-	-	2	-	-	1
Missouri.....	-	-	1	-	-	1	4	-	-	3	-	1
North Dakota.....	-	-	-	-	-	-	1	-	-	1	-	-
South Dakota.....	-	-	-	-	-	-	-	-	-	-	1	8
Nebraska.....	-	-	-	-	-	3	-	-	3	-	-	2
Kansas.....	-	-	2	-	-	1	1	-	1	1	-	1
SOUTH ATLANTIC.....	-	2	2	1	-	1	28	-	1	22	3	35
Delaware.....	-	-	-	-	-	-	-	-	-	-	-	-
Maryland.....	-	-	-	-	-	1	1	-	1	1	-	-
Dist. of Columbia..	-	-	-	-	-	-	-	-	-	-	-	3
Virginia.....	-	2	-	-	-	-	4	-	-	4	-	-
West Virginia.....	-	-	-	-	-	-	1	-	-	1	-	-
North Carolina.....	-	-	-	-	-	-	11	-	-	6	-	4
South Carolina.....	-	-	-	-	-	-	1	-	-	1	-	1
Georgia.....	-	-	-	-	-	-	1	-	-	1	3	18
Florida.....	-	-	2	1	-	-	9	-	-	8	-	9
EAST SOUTH CENTRAL...	1	1	1	-	-	2	6	-	1	5	5	24
Kentucky.....	-	-	-	-	-	1	-	-	-	-	-	-
Tennessee.....	-	-	-	-	-	1	3	-	1	2	-	2
Alabama.....	-	1	-	-	-	-	2	-	-	2	5	20
Mississippi.....	1	-	1	-	-	-	1	-	-	1	-	2
WEST SOUTH CENTRAL...	1	2	1	1	-	17	9	-	14	8	1	34
Arkansas.....	-	1	-	-	-	-	-	-	-	-	-	2
Louisiana.....	-	-	-	-	-	2	-	-	1	-	1	8
Oklahoma.....	-	1	-	-	-	1	3	-	1	2	-	1
Texas.....	1	-	1	1	-	14	6	-	12	6	-	23
MOUNTAIN.....	1	3	1	-	-	5	7	-	3	4	-	-
Montana.....	-	-	1	-	-	-	-	-	-	-	-	-
Idaho.....	-	-	-	-	-	-	1	-	-	1	-	-
Wyoming.....	-	-	-	-	-	-	2	-	-	2	-	-
Colorado.....	-	1	-	-	-	-	1	-	-	1	-	-
New Mexico.....	-	1	-	-	-	1	3	-	1	-	-	-
Arizona.....	1	1	-	-	-	4	-	-	2	-	-	-
Utah.....	-	-	-	-	-	-	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	22	22	4	2	-	6	3	-	4	3	-	9
Washington.....	3	2	-	-	-	2	-	-	2	-	-	3
Oregon.....	2	-	-	-	-	1	1	-	1	1	-	1
California.....	17	19	4	2	-	3	2	-	1	2	-	5
Alaska.....	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii.....	-	1	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	-	-	-	-	-	-	-	-	-	-	12

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

NOVEMBER 6, 1965 AND OCTOBER 31, 1964 (44th WEEK) - Continued

Area	Brucellosis	Infectious Hepatitis including Serum Hepatitis					Meningococcal Infections			Tetanus	
		Total incl. unk.	Under 20 years	20 years and over	Cumulative Totals			Cumulative			Cum.
	1965	1965	1965	1965	1965	1964	1965	1965	1964	1965	1965
UNITED STATES...	3	633	282	320	28,681	32,433	45	2,588	2,357	6	226
NEW ENGLAND.....	-	23	7	13	1,640	2,945	-	130	75	-	5
Maine.....	-	3	2	1	285	922	-	17	6	-	-
New Hampshire.....	-	1	1	-	160	230	-	7	2	-	1
Vermont.....	-	-	-	-	88	355	-	8	4	-	-
Massachusetts.....	-	7	1	6	641	663	-	46	31	-	3
Rhode Island.....	-	5	-	5	180	180	-	14	10	-	-
Connecticut.....	-	7	3	1	286	595	-	38	22	-	1
MIDDLE ATLANTIC.....	-	98	42	56	5,045	7,161	10	337	302	1	14
New York City.....	-	42	18	24	1,043	1,100	2	57	42	-	-
New York, Up-State.	-	22	7	15	1,867	3,119	3	97	86	-	5
New Jersey.....	-	17	9	8	953	1,212	2	85	99	1	2
Pennsylvania.....	-	17	8	9	1,182	1,730	3	98	75	-	7
EAST NORTH CENTRAL...	-	127	74	51	5,574	5,099	11	384	312	-	32
Ohio.....	-	19	11	8	1,522	1,339	2	102	81	-	3
Indiana.....	-	11	7	4	471	434	1	49	49	-	8
Illinois.....	-	25	18	6	1,047	947	2	102	80	-	15
Michigan.....	-	63	35	28	2,182	2,025	4	86	71	-	3
Wisconsin.....	-	9	3	5	352	354	2	45	31	-	3
WEST NORTH CENTRAL...	1	31	16	14	1,613	1,754	1	130	134	2	21
Minnesota.....	-	7	-	6	185	208	1	31	29	1	9
Iowa.....	1	7	6	1	544	284	-	12	8	-	4
Missouri.....	-	8	6	2	346	439	-	52	60	1	3
North Dakota.....	-	-	-	-	29	62	-	11	20	-	1
South Dakota.....	-	1	-	1	21	130	-	3	3	-	-
Nebraska.....	-	3	2	1	85	48	-	10	6	-	2
Kansas.....	-	5	2	3	403	583	-	11	8	-	2
SOUTH ATLANTIC.....	-	45	18	25	2,943	3,042	7	487	463	3	53
Delaware.....	-	-	-	-	76	67	-	10	6	-	-
Maryland.....	-	13	9	4	520	555	1	47	33	1	2
Dist. of Columbia..	-	-	-	-	41	63	1	10	16	-	-
Virginia.....	-	2	-	1	687	478	-	59	56	-	7
West Virginia.....	-	5	4	1	406	434	1	26	34	-	1
North Carolina.....	-	3	-	3	291	502	1	101	78	1	8
South Carolina.....	-	2	1	1	130	119	-	62	55	-	6
Georgia.....	-	2	2	-	104	99	1	59	72	-	8
Florida.....	-	18	2	15	688	725	2	113	113	1	21
EAST SOUTH CENTRAL...	-	72	36	27	2,070	2,231	5	201	185	-	29
Kentucky.....	-	34	18	7	751	790	1	77	62	-	6
Tennessee.....	-	17	8	9	689	787	1	64	56	-	10
Alabama.....	-	9	3	6	365	432	-	35	43	-	11
Mississippi.....	-	12	7	5	265	222	3	25	24	-	2
WEST SOUTH CENTRAL...	1	37	16	20	2,443	2,534	2	329	273	-	48
Arkansas.....	1	-	-	-	304	255	-	16	27	-	11
Louisiana.....	-	2	1	1	406	618	-	181	126	-	6
Oklahoma.....	-	1	-	1	53	122	-	20	12	-	1
Texas.....	-	34	15	18	1,680	1,539	2	112	108	-	30
MOUNTAIN.....	-	26	7	6	1,581	1,957	2	92	78	-	3
Montana.....	-	2	-	-	137	170	-	2	1	-	-
Idaho.....	-	5	-	-	191	276	-	11	3	-	-
Wyoming.....	-	1	-	1	41	79	-	5	5	-	-
Colorado.....	-	4	3	1	337	516	-	24	14	-	2
New Mexico.....	-	5	4	1	331	269	-	11	30	-	-
Arizona.....	-	6	-	-	335	429	2	19	8	-	1
Utah.....	-	3	-	3	194	167	-	17	7	-	-
Nevada.....	-	-	-	-	15	51	-	3	10	-	-
PACIFIC.....	1	174	66	108	5,772	5,710	7	498	535	-	21
Washington.....	-	9	2	7	434	579	1	39	41	-	-
Oregon.....	-	16	6	10	500	584	1	35	21	-	4
California.....	-	135	53	82	4,559	4,188	5	398	453	-	17
Alaska.....	-	8	5	3	207	247	-	18	7	-	-
Hawaii.....	1	6	-	6	72	112	-	8	13	-	-
Puerto Rico	-	32	22	10	1,235	893	-	11	34	1	52

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

NOVEMBER 6, 1965 AND OCTOBER 31, 1964 (44th WEEK) - Continued

Area	Measles			Strept. Sore Th. & Scarlet Fev.	Tularemia		Typhoid Fever		Rabies in Animals	
		Cumulative				Cum.		Cum.		Cum.
	1965	1965	1964	1965	1965	1965	1965	1965	1965	1965
UNITED STATES...	1,356	246,184	467,776	6,489	4	221	6	374	45	3,674
NEW ENGLAND.....	67	37,036	17,848	745	-	1	-	7	-	44
Maine.....	21	2,856	3,137	116	-	-	-	-	-	4
New Hampshire.....	-	382	447	5	-	-	-	-	-	3
Vermont.....	25	1,344	2,353	39	-	-	-	-	-	31
Massachusetts.....	11	19,338	5,579	104	-	1	-	3	-	2
Rhode Island.....	7	3,950	2,027	43	-	-	-	1	-	-
Connecticut.....	3	9,166	4,305	438	-	-	-	3	-	4
MIDDLE ATLANTIC.....	187	15,514	52,574	151	-	-	-	64	7	179
New York City.....	69	2,602	15,414	10	-	-	-	29	-	-
New York, up-State.	16	4,243	12,865	84	-	-	-	15	5	164
New Jersey.....	72	2,843	12,255	40	-	-	-	7	-	-
Pennsylvania.....	30	5,826	12,040	17	-	-	-	13	2	15
EAST NORTH CENTRAL...	384	57,266	103,674	455	-	14	-	40	1	543
Ohio.....	8	8,938	19,692	26	-	-	-	9	-	277
Indiana.....	33	2,050	22,944	151	-	5	-	9	-	65
Illinois.....	120	3,000	16,682	76	-	6	-	10	-	84
Michigan.....	98	26,843	29,144	137	-	2	-	7	1	56
Wisconsin.....	125	16,435	15,212	65	-	1	-	5	-	61
WEST NORTH CENTRAL...	46	16,848	30,451	323	-	28	1	14	7	747
Minnesota.....	2	715	337	7	-	1	-	1	3	154
Iowa.....	24	9,113	23,384	103	-	-	-	2	1	210
Missouri.....	8	2,609	1,038	-	-	20	1	9	3	108
North Dakota.....	9	3,840	4,835	189	-	-	-	-	-	45
South Dakota.....	-	115	37	14	-	3	-	-	-	56
Nebraska.....	3	456	820	3	-	-	-	2	-	36
Kansas.....	NN	NN	NN	7	-	4	-	-	-	138
SOUTH ATLANTIC.....	129	25,490	38,854	589	-	33	2	74	3	485
Delaware.....	1	508	415	27	-	-	-	4	-	-
Maryland.....	9	1,183	3,421	62	-	-	-	20	-	25
Dist. of Columbia..	3	83	355	11	-	-	-	-	-	-
Virginia.....	4	3,923	12,741	139	-	8	-	8	-	291
West Virginia.....	94	14,187	8,945	223	-	-	-	3	1	22
North Carolina.....	2	401	1,187	14	-	8	-	15	-	3
South Carolina.....	12	1,098	4,277	29	-	3	1	9	-	3
Georgia.....	-	618	203	1	-	14	1	10	2	67
Florida.....	4	3,489	7,310	83	-	-	-	5	-	74
EAST SOUTH CENTRAL...	237	14,494	68,254	1,193	1	22	3	41	7	770
Kentucky.....	103	2,831	18,598	95	-	3	-	10	1	84
Tennessee.....	126	8,179	24,510	935	1	18	1	13	6	629
Alabama.....	3	2,344	18,418	75	-	1	1	10	-	16
Mississippi.....	5	1,140	6,728	88	-	-	1	8	-	41
WEST SOUTH CENTRAL...	77	31,316	72,554	660	2	93	-	51	15	591
Arkansas.....	3	1,088	1,149	1	1	64	-	13	4	87
Louisiana.....	-	111	119	3	1	7	-	9	-	74
Oklahoma.....	-	211	1,024	1	-	11	-	7	2	128
Texas.....	74	29,906	70,262	655	-	11	-	22	9	302
MOUNTAIN.....	96	20,185	19,295	1,065	-	16	-	31	-	84
Montana.....	24	3,818	3,335	57	-	4	-	1	-	5
Idaho.....	19	2,865	1,988	58	-	-	-	-	-	-
Wyoming.....	1	853	274	51	-	4	-	1	-	-
Colorado.....	35	5,800	3,295	479	-	-	-	1	-	9
New Mexico.....	-	679	539	218	-	-	-	12	-	14
Arizona.....	13	1,375	6,716	87	-	-	-	13	-	53
Utah.....	4	4,587	2,156	115	-	8	-	1	-	2
Nevada.....	-	208	992	-	-	-	-	2	-	1
PACIFIC.....	133	28,035	64,272	1,308	1	14	-	52	5	231
Washington.....	13	7,319	20,296	313	-	-	-	7	1	8
Oregon.....	16	3,341	8,757	23	-	5	-	8	-	9
California.....	46	13,199	33,428	834	1	9	-	36	4	212
Alaska.....	2	192	1,130	51	-	-	-	-	-	2
Hawaii.....	56	3,984	661	87	-	-	-	1	-	-
Puerto Rico	56	2,629	6,828	15	-	-	-	14	-	13

Week No. 44

DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED NOVEMBER 6, 1965

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over		
NEW ENGLAND:	720	439	41	31
Boston, Mass.	253	144	10	11
Bridgeport, Conn.	35	17	4	5
Cambridge, Mass.	30	16	-	2
Fall River, Mass.	25	14	2	1
Hartford, Conn.	61	36	1	3
Lowell, Mass.	28	23	3	-
Lynn, Mass.	22	12	-	-
New Bedford, Mass.*	26	18	1	1
New Haven, Conn.	45	29	1	-
Providence, R. I.	54	35	4	2
Somerville, Mass.	12	7	1	1
Springfield, Mass.	51	37	7	1
Waterbury, Conn.	37	25	1	3
Worcester, Mass.	41	26	6	1
MIDDLE ATLANTIC:	3,264	1,922	125	150
Albany, N. Y.	47	24	-	2
Allentown, Pa.	33	26	-	2
Buffalo, N. Y.	135	79	3	5
Camden, N. J.	44	30	1	3
Elizabeth, N. J.	34	18	-	1
Erie, Pa.	42	28	1	4
Jersey City, N. J.	73	41	8	2
Newark, N. J.	80	43	5	8
New York City, N. Y.	1,673	1,007	69	75
Paterson, N. J.	43	23	2	1
Philadelphia, Pa.	490	267	15	22
Pittsburgh, Pa.	191	95	3	11
Reading, Pa.	51	35	4	2
Rochester, N. Y.	111	69	5	4
Schenectady, N. Y.	30	19	1	2
Scranton, Pa.	21	12	2	-
Syracuse, N. Y.	66	42	1	4
Trenton, N. J.	40	23	2	1
Utica, N. Y.	19	15	1	-
Yonkers, N. Y.	41	26	2	1
EAST NORTH CENTRAL:	2,615	1,518	92	143
Akron, Ohio	82	48	1	6
Canton, Ohio*	37	23	3	2
Chicago, Ill.	743	399	27	45
Cincinnati, Ohio	152	100	3	4
Cleveland, Ohio	218	125	2	8
Columbus, Ohio	118	58	2	15
Dayton, Ohio	70	35	1	3
Detroit, Mich.	373	224	21	14
Evansville, Ind.	48	35	5	-
Flint, Mich.	54	28	2	5
Fort Wayne, Ind.	43	29	2	-
Gary, Ind.	30	17	4	1
Grand Rapids, Mich.	53	30	5	5
Indianapolis, Ind.	162	99	3	10
Madison, Wis.	39	24	-	3
Milwaukee, Wis.	107	65	3	2
Peoria, Ill.	36	18	1	5
Rockford, Ill.	18	12	3	1
South Bend, Ind.	47	28	2	3
Toledo, Ohio	128	82	2	9
Youngstown, Ohio	57	39	-	2
WEST NORTH CENTRAL:	822	499	34	40
Des Moines, Iowa	50	33	1	1
Duluth, Minn.*	25	16	1	1
Kansas City, Kans.	37	20	2	6
Kansas City, Mo.	146	87	5	5
Lincoln, Nebr.	33	22	1	2
Minneapolis, Minn.	117	78	6	9
Omaha, Nebr.	75	39	7	2
St. Louis, Mo.	248	146	5	10
St. Paul, Minn.	62	39	1	4
Wichita, Kans.	29	19	5	-

*Estimate - based on average percent of divisional total.

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over		
SOUTH ATLANTIC:	1,113	584	50	55
Atlanta, Ga.	126	55	4	7
Baltimore, Md.	229	111	5	15
Charlotte, N. C.	33	8	2	3
Jacksonville, Fla.	86	40	6	3
Miami, Fla.	82	47	2	5
Norfolk, Va.	43	22	6	2
Richmond, Va.	103	60	3	4
Savannah, Ga.	34	16	2	2
St. Petersburg, Fla.	68	50	3	1
Tampa, Fla.	70	42	8	2
Washington, D. C.	184	103	6	10
Wilmington, Del.	55	30	3	1
EAST SOUTH CENTRAL:	618	321	30	46
Birmingham, Ala.	82	42	1	2
Chattanooga, Tenn.	42	22	4	4
Knoxville, Tenn.	40	24	1	-
Louisville, Ky.	121	64	14	5
Memphis, Tenn.	153	68	6	23
Mobile, Ala.	52	29	-	3
Montgomery, Ala.	45	26	1	4
Nashville, Tenn.	83	46	3	5
WEST SOUTH CENTRAL:	1,065	564	50	81
Austin, Tex.	41	23	4	5
Baton Rouge, La.	23	14	1	1
Corpus Christi, Tex.	28	12	-	3
Dallas, Tex.	159	74	6	14
El Paso, Tex.	35	13	2	6
Fort Worth, Tex.	79	53	3	4
Houston, Tex.	163	78	5	5
Little Rock, Ark.	62	38	3	4
New Orleans, La.	206	103	12	24
Oklahoma City, Okla.	91	55	3	5
San Antonio, Tex.	90	52	2	6
Shreveport, La.	37	18	4	1
Tulsa, Okla.	51	31	5	3
MOUNTAIN:	386	236	13	21
Albuquerque, N. Mex.	43	21	4	5
Colorado Springs, Colo.*	19	14	1	1
Denver, Colo.	107	68	4	6
Ogden, Utah	12	8	-	-
Phoenix, Ariz.	87	56	1	3
Pueblo, Colo.	10	7	-	-
Salt Lake City, Utah	57	31	1	4
Tucson, Ariz.	51	31	2	2
PACIFIC:	1,587	949	43	70
Berkeley, Calif.	14	10	-	1
Fresno, Calif.	50	26	3	2
Glendale, Calif.	48	33	2	2
Honolulu, Hawaii	47	23	2	3
Long Beach, Calif.	59	38	-	2
Los Angeles, Calif.	585	342	20	28
Oakland, Calif.	52	32	-	1
Pasadena, Calif.	32	28	-	-
Portland, Oreg.*	114	72	2	4
Sacramento, Calif.	49	27	1	3
San Diego, Calif.	100	51	3	8
San Francisco, Calif.	196	109	1	6
San Jose, Calif.*	38	24	3	2
Seattle, Wash.	121	77	4	8
Spokane, Wash.	45	36	1	-
Tacoma, Wash.	37	21	1	-
Total	12,190	7,032	478	637

Cumulative Totals
including reported corrections for previous weeks

All Causes, All Ages	540,514
All Causes, Age 65 and over	305,097
Pneumonia and Influenza, All Ages	21,779
All Causes, Under 1 Year of Age	31,966

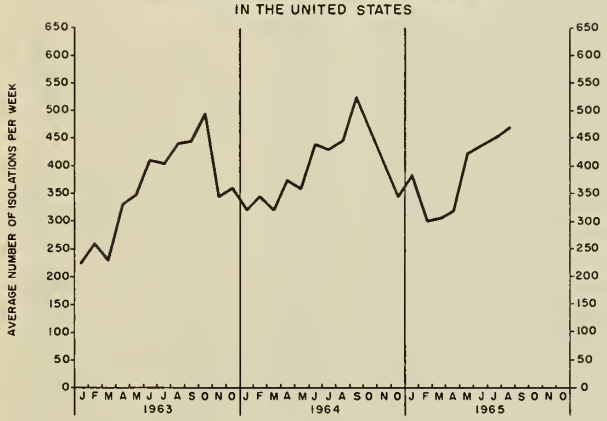
SURVEILLANCE SUMMARY

SALMONELLA – August 1965

(Continued from page 379)

Figure 3.

REPORTED HUMAN ISOLATIONS OF SALMONELLAE IN THE UNITED STATES



	Turkeys	Chickens	Cattle	Swine
Percent	30.0	22.2	4.4	3.5

During the month two rare serotypes were reported for the second time to the Salmonella Surveillance Unit. *Salmonella ruiri,* which was recovered from poultry by-products in Maryland in April, was isolated in August from animal feed in Florida. *Salmonella drypool* reported in the United States for the first time in July was isolated in August from bone meal in Wisconsin. *Salmonella taksany,* which has been recovered on several occasions from turkeys, was isolated from animal feed in Delaware this August.

(Reported by the Salmonella Surveillance Unit, CDC.)

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THE EDITOR
MORBIDITY AND MORTALITY WEEKLY REPORT
COMMUNICABLE DISEASE CENTER
ATLANTA, GEORGIA 30333

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE CDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES ON SATURDAY; COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.

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